

# SAFETY DATA SHEET

GLASS DECORATIVE TILE

FILE NO.: SDS.ELEMENT.01

SDS DATE: January 2015

## SECTION 1: IDENTIFICATION

**PRODUCT NAME:** Element / Bliss Glass Wall Tile  
**SYNONYMS:**  
**PRODUCT CODES:** All current product references  
**PRODUCT USE:** Residential & Commercial Construction Applications

**CHEMICAL NAME:** N/A  
**CHEMICAL FAMILY:** N/A  
**CHEMICAL FORMULA:** N/A

**MANUFACTURER:** Anatolia Tile & Stone (Designer & Importer)  
**DIVISION:** Corporate Office  
**ADDRESS:** 8300 Huntington Road, Vaughan, ON Canada L4L 1A5

**EMERGENCY PHONE:** 905-771-3800  
**CHEMTREC PHONE:**  
**OTHER CALLS:**  
**FAX PHONE:** 905-771-6300

**PREPARED BY:** Diana Vacca

## SECTION 2: HAZARD(S) IDENTIFICATION



CARCINOGEN



IRRITANT / REPIRATORY TRACT IRRITATION

**NOTES:** Not applicable for intact tiles. Excessive exposure to tile dust can cause discomfort and mechanical irritation. Long term exposure to silica dusts can lead to silicosis.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### INGREDIENT:

The product is a mixture of below natural occurring minerals that have been mixed with water and fired in a high temperature kiln. This tile contains <0.1 percent by weight each of the following elements; cadmium, zinc, chrome and other metals.

<u>NAME</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Glass, SiO <sub>2</sub> -NA <sub>2</sub> O	65887-17-3	> 97.0	DSD: Not Classified CLP: Not Classified
Silicon Dioxide,* SiO <sub>2</sub>	14808-60-7	< 3.0	DSD: Not Classified
Crystalline Silica as Quartz			CLP: Not Classified

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## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS - CONTINUED

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\*: The composition of SiO<sub>2</sub> may be up to 100% crystalline silica. (R): Respirable (T): Total §: Crystalline silica is normally measured as respirable dust. The OSHA standard also presents a formula for calculation of the PEL based on total dust: 30 mg/m<sup>3</sup> / (% SiO<sub>2</sub> + 2).

### EMERGENCY OVERVIEW:

The product is not classified as hazardous according to Regulation 1272/2008 (CLP). The product is a mixture of natural occurring minerals that have been mixed with water and fired in a high temperature kiln.

MANY STAINED GLASS PRODUCTS CONTAIN METAL OXIDES. WHILE THE GLASS MATRIX CONTAINS BOUND METALS, GRINDING TO AN EXTREMELY FINE MESH SIZE CAN LIBERATE SOME METALS INTO THE AIR. GLASS CONTAINS NO FREE (OR CRYSTALLINE) SILICA; ALL COMPONENTS ARE AMORPHOUS/NON-CRYSTALLINE; CHEMICALS USED TO PRODUCE GLASS ARE NOT AVAILABLE TO THE ENVIRONMENT UNLESS ONE HEATS THE PRODUCT ABOVE 2000 °F OR GROUNDS IT TO AN EXTREMELY FINE PARTICLE SIZE. OSHA CONSIDERS DUST AS A NUISANCE. HAND, EYE, AND OTHER BODY PARTS MAY NEED PROTECTION IF CUTTING OR REMOVING INSTALLED GLASS TILES. OTHER HAZARDS ARE DUE TO THE EXCESSIVE WEIGHT OF GLASS WHEN STACKED. USE CRATES THAT WILL NOT BREAK, AND PALLET RACKS RATED HIGHER THAN THE LOAD BEING STORED. BE AWARE OF UNSECURED STACKS OF TILE AND BREAKING CRATES. GLASS TILE PRODUCTS ARE MIXTURES OF NATURAL OCCURRING MINERALS THAT HAVE BEEN COLORED AND FIRED IN A HIGH TEMPERATURE KILN. PROPER INSTALLATION INSURES THESE PRODUCTS AS SAFE.

### POTENTIAL HEALTH EFFECTS

**EYES:** Mechanical stress through eye rubbing if exposed to dust or airborne particulates

**SKIN:** Skin irritation if exposed to dust or airborne particulates

**INGESTION:** Potential choking hazard if exposed to airborne particulates

**INHALATION:** Mechanical stress from inhalation of dust or airborne particulates

**ACUTE HEALTH HAZARDS:** No further relevant information available.

**CHRONIC HEALTH HAZARDS:** No further relevant information available

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** No further relevant information available

### CARCINOGENICITY

Crystalline Silica (Quartz)

LD50 Rat oral > 22,500 mg/kg & LD50 Mouse oral > 15,000 mg/kg

LC50 Carp > 10,000 mg/l (per 72 hr)

**OSHA:** Recommended that Crystalline Silica be considered a POTENTIAL occupational carcinogen

**ACGIH:** No information available

**NTP:** 9<sup>th</sup> Report: Lists Respirable Crystalline Silica as known to be a Human Carcinogen

**IARC:** Respirable Crystalline Silica is classified as a Group 1 Carcinogen (carcinogenic to humans).

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## SECTION 4: FIRST AID MEASURES

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Respiratory, hand and eye protection may be needed to prevent excess exposure to airborne particulates if dust is produced by cutting tiles or if dust is produced by any other operations, including removal.

**EYES:** Do not rub eyes in order to avoid possible cornea damage as a result of mechanical stress. Check for and remove any contact lenses. Immediately rinse contaminated eye(s) with gently running lukewarm water (saline solution is preferred) for at least 15 minutes, while holding the eyelid(s) open. In the case of an embedded particle in the eye, or if irritation occurs, consult a physician. Beyond flushing, do not attempt to remove material from the eye(s).

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## SECTION 4: FIRST AID MEASURED - CONTINUED

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**SKIN:** Carefully and gently, brush the contaminated body surfaces in order to remove all traces of glass dust. Use a brush, cloth, or gloves. Remove all contaminated clothing. Wash work clothes after each use. Wash dust-exposed skin with soap and water before eating or drinking. Contact a physician if irritation persists or later develops.

**INGESTION:** Rinse out mouth and make victim drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed to do so by medical personnel; call for medical help.

**INHALATION:** Move source of dust away from person, or move victim to source of fresh air. Dust in throat and nasal passages should clear spontaneously. Obtain medical attention immediately. If victim does not breathe, give artificial respiration. Contact a physician immediately.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** No further information available.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABLE LIMITS IN AIR, UPPER:** Not Flammable  
**(% BY VOLUME) LOWER:** Not Flammable

**FLASH POINT:** No Data Available  
F: N/A  
C: N/A

**METHOD USED:**

**AUTOIGNITION TEMPERATURE:** No Data Available  
F: N/A  
C: N/A

**EXTINGUISHING MEDIA:**

Suitable: Water, alcohol resistant foam, CO2, dry chemical powder  
Unsuitable: Water jet

### SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus and full protective clothing in case of fire. Avoid breathing fire fumes. Avoid contact with sharp edges, usually generated while cutting or removing.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Not explosive

### HAZARDOUS DECOMPOSITION PRODUCTS:

The product is non-combustible and non-explosive and will not facilitate or sustain the combustion of other materials. Development of hazardous combustion gases or fumes are possible in the event of fire.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

For non-emergency personnel: Keep unnecessary and unprotected personnel from entering. Wear appropriate personal protective equipment as described in Section 8. Follow the advice for safe handling and use given in Section 7.

For emergency responders: Emergency procedures are not required. However, respiratory protection is needed in situations with high dust levels.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES - CONTINUED

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### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP

Do not empty into drains and sewers. Keep from entering into water and ground water systems. Contain spillage where possible and safe to do so. Inform appropriate authority in case of accidental contamination of watercourses or drains.

Use dry clean up methods such as vacuum exhaust which do not generate dust formation. Never use compressed air for cleaning. If dust is formed applying a dry cleaning method, personal protective equipment must be used. Avoid inhalation of product dust and skin contact. Place the spilled material in an appropriate waste disposal container for proper disposal.

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## SECTION 7: HANDLING AND STORAGE

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### PRECAUTIONS FOR SAFE HANDLING

Provide adequate ventilation. Provide local exhaust or general room ventilation to minimize dust concentrations. Avoid inhalation and contact with skin, eye and clothing.

### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store in accordance with local regulations. Store in a dry, cool and well ventilated area, away from incompatible materials (see Section 10) and food and drink.

### OTHER PRECAUTIONS:

No further relevant information available.

**EXPOSURE GUIDELINES:** Attempt to stop spillage without personal risk. Should not be released into the environment. Prevent product from entering drains.

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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### ENGINEERING CONTROLS:

Contains the following ingredients with occupational exposure limit values:

Crystalline Silica (Quartz): TWA: 0.1 mg/cubic meter (respirable dust)

**VENTILATION :** Provide adequate ventilation. Provide local exhaust or general room ventilation to minimize dust concentrations. The highest probability of silica exposure occurs during dry cutting. Wet cutting methods are recommended.

**RESPIRATORY PROTECTION:** Use FFP2 type dust mask

**EYE PROTECTION:** Use tight fitting safety goggles or safety glasses with side shields where dust is formed. Contact lenses may absorb irritants. Do not wear contact lenses in work areas. Have emergency eyewash station available in area where tiles are cut

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION - CONTINUED

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**SKIN PROTECTION:** Wear dust proof protective gloves, boots, and long sleeved clothing.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None required

**WORK HYGIENIC PRACTICES:** Do not eat, drink or smoke when working. Wash hands and if necessary shower before breaks and after work to remove adherent product. Avoid contact with eyes and skin. After working with product, workers should wash or shower and use skin care products. Clean contaminated clothing, footwear etc thoroughly before re-using them.

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## SECTION 9: PHYSICAL DATA

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**APPEARANCE:** Solid

**ODOR:** Odourless

**PHYSICAL STATE:** Solid

**pH AS SUPPLIED:** No data available  
**pH (Other):**

**BOILING POINT:** No data available

F: >2000

C:

**MELTING POINT:**

F: > 2000

C: >

**FREEZING POINT:** No data available

F:

C:

**VAPOR PRESSURE (mmHg):** Not applicable

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F:

C:

**VAPOR DENSITY (AIR = 1):** 2.35 – 2.95 g / cubic centimeter

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F:

C:

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 2.5 g/cubic centimeter

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F:

C:

**EVAPORATION RATE:** Not applicable

**BASIS (=1):**

**SOLUBILITY IN WATER:** Not soluble

**PERCENT SOLIDS BY WEIGHT:** 100%

**PERCENT VOLATILE:** Not applicable

BY WT/ BY VOL @

F:

C:

**VOLATILE ORGANIC COMPOUNDS (VOC):** Not applicable

WITH WATER: LBS/GAL

WITHOUT WATER: LBS/GAL

**MOLECULAR WEIGHT:** Not applicable

**VISCOSITY:** Not applicable

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F:

C:

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## SECTION 10: STABILITY AND REACTIVITY DATA

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**STABILITY:** The product is **STABLE** under normal conditions of storage and use. Contact with incompatible materials should be avoided.

**CONDITIONS TO AVOID (STABILITY):** Avoid contact with acids (e.g. acetic, hydrofluoric, etc.) Glass is non-flammable. Glass will react with hydrofluoric acid producing a corrosive gas – silicon tetra fluoride.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Acids (e.g., acetic, hydrofluoric, etc.)

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Under normal conditions of storage and use, hazardous decomposition products should not be produced. In a fire, decomposition may produce toxic gases / fumes. Glass sand is not classified as a hazardous material by the criteria of the OSHA Hazard Communication Standard, Title 29, Code of Federal Regulations, Section 1910.1200.

**HAZARDOUS POLYMERIZATION:** Not applicable

**CONDITIONS TO AVOID (POLYMERIZATION):** Not applicable

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL INFORMATION:** **Acute:** Working with broken or cut tile produces a potential for cuts to the hands and exposed body parts. Acute effects such as eye irritation may occur if associated with high dust operations such as dry cutting tile or during the removal of tile surfaces.

**Chronic:** Not applicable for intact tiles. Excessive exposure to tile dust can cause discomfort and mechanical irritation. Long term exposure to silica dusts can lead to silicosis.

**Crystalline Silica (Quartz)**

LD50 Rat oral > 22,500 mg / kg & LD50 Mouse oral > 15,000 mg / kg

LC50 Carp > 10,000 mg / l (per 72 hr)

**Skin & Eye corrosion / irritation**

Inhalation and potential eye exposure to eyes may cause irritation if contact is made with broken, and / or during procedures involving the cutting of tiles, and / or for operations involving the removal of installed tiles. There are no known acute effects from exposure to intact tile. Skin absorption is usually not a significant route of exposure.

**Sensitization** Existing lung disease may be aggravated after exposure to tile dusts. Long term exposure to silica dusts can lead to silicosis.

**Genetic Toxicity** No data available

**Repeated Dose Toxicity** No data available

**Cardinogenicity**

Respirable crystalline silica is classified by the International Agency for Research on Cancer (IARC) as a Group 1 Carcinogen (carcinogenic to humans). The National Toxicology Program (9<sup>th</sup> Report) lists respirable crystalline silica as known to be a Human Carcinogen. USDOL/OSHA and NIOSH have recommended that crystalline silica be considered a potential occupational carcinogen.

**Reproductive Toxicity** No data available

**Specific target organ Toxicity** No data available

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## SECTION 12: ECOLOGICAL INFORMATION

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No data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### WASTE DISPOSAL METHOD:

**Waste Treatment Methods** Can be deposited in landfills, sent to an incineration or other appropriate means of disposal provided they meet the requirements of local laws.

**Methods of Disposal** The generation of waste should be avoided or minimized wherever possible. Dispose of in accordance with local regulations.

**Contaminated Packaging** This material and its package must be disposed of in a safe way

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## SECTION 14: TRANSPORT INFORMATION

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**RCRA HAZARD CLASS:** Not applicable

**SPECIAL SHIPPING INFORMATION** Not Applicable

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## SECTION 15: REGULATORY INFORMATION

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No data available

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## SECTION 16: PREPARATION INFORMATION

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### OTHER INFORMATION:

<b>PREPARATION INFORMATION:</b>	<b>Date Prepared</b>	January 15, 2015
	<b>Revision</b>	01

**DISCLAIMER:** The information contained within this Safety Data Sheet is believed to be accurate and have been compiled from sources believed to be reliable. It is offered for consideration, investigation and verification. It is the users responsibility to follow the guidelines as outlined within this SDS. The user assumes all risk of use, storage and handling in compliance with applicable laws and regulations.